

JUL 07 2004

PTO/SB/08A (10/01) (modified)
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number 10/644,112

Filing Date August 20, 2003

First Named Inventor Ronald D. Blum

Art Unit 2873

Examiner Name Unassigned

Sheet 1 of 2

Attorney Docket Number 63049.000088

U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
rf	1	US- 5,386,308	1-31-1995	Michel et al.	—
	2	US-			
	3	US-			
	4	US-			
	5	US-			
	6	US-			
	7	US-			
	8	US-			
	9	US-			
	10	US-			
	11	US-			
	12	US-			
	13	US-			
	14	US-			

FOREIGN PATENT DOCUMENTS

*Examiner Initials	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code:	Number - Kind Code (if known)				YES	NO
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EXAMINER SIGNATURE *rfp*DATE CONSIDERED *12/11/04*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/644,112
Filing Date	August 20, 2003
First Named Inventor	Ronald D. Blum
Art Unit	2873
Examiner Name	Unassigned

Sheet 2 of 2 Attorney Docket Number 63049.000088

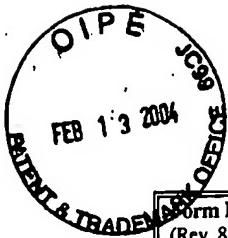
OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
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EXAMINER SIGNATURE *RLP*

DATE CONSIDERED 12/21/04

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Sheet 1 of 10

Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No.: 63049.000088	Application No.: 10/644,112		
INFORMATION DISCLOSURE STATEMENT							
(Use several sheets if necessary)							
		Applicant: Ronald D. Blum et al.					
		Filing Date: August 20, 2003		Group: 2873			
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>gj</i>	1	Re. 35,691	12/16/97	Theirl et al.	—	—	
<i>gj</i>	2	D 298,250	10/25/88	Kildall	—	—	
<i>gj</i>	3	D 342,063	12/7/93	Howitt et al.	—	—	
<i>gj</i>	4	D 350,342	9/6/94	Sack	—	—	
<i>gj</i>	5	2,437,642	3/9/48	Henroteau	—	—	
<i>gj</i>	6	2,576,581	11/27/51	Edwards	—	—	
<i>gj</i>	7	3,161,718	12/15/64	de Luca	—	—	
<i>gj</i>	8	3,245,315	4/12/66	Marks et al.	—	—	
<i>gj</i>	9	3,614,215	10/19/71	Mackta	—	—	
<i>gj</i>	10	3,738,734	6/12/73	Tait et al.	—	—	
<i>gj</i>	11	4,174,156	11/13/79	Glorieux	—	—	
<i>gj</i>	12	4,181,408	1/1/80	Senders	—	—	
<i>gj</i>	13	4,190,330	2/26/80	Berreman	—	—	
Examiner: <i>gj</i>			Date Considered: 12/21/04				
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							



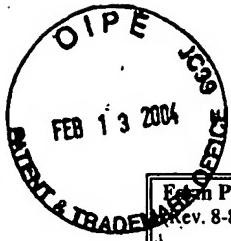
Sheet 2 of 10

Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No.: 63049.000088	Application No.: 10/644,112		
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Filing Date: August 20, 2003				Group: 2873			
U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>dlf</i>	14	4,264,154	4/28/81	Peterson	—	—	
<i>dlf</i>	15	4,279,474	7/21/81	Belgorod	—	—	
<i>dlf</i>	16	4,300,818	11/17/81	Schachar	—	—	
<i>dlf</i>	17	4,373,218	2/15/83	Schachar	—	—	
<i>dlf</i>	18	4,395,736	7/26/83	Fraleux	—	—	
<i>dlf</i>	19	4,418,990	12/6/83	Gerber	—	—	
<i>dlf</i>	20	4,457,585	7/3/84	DuCorday	—	—	
<i>dlf</i>	21	4,466,706	8/21/84	Lamothe, II	—	—	
<i>dlf</i>	22	4,529,268	7/16/85	Brown	—	—	
<i>dlf</i>	23	4,564,267	1/14/86	Nishimoto	—	—	
<i>dlf</i>	24	4,572,616	2/25/86	Kowal et al.	—	—	
<i>dlf</i>	25	4,577,928	3/25/86	Brown	—	—	
<i>dlf</i>	26	4,601,545	7/22/86	Kern	—	—	
<i>dlf</i>	27	4,609,824	9/2/86	Munier et al.	—	—	
<i>dlf</i>	28	4,712,870	12/15/87	Robinson et al.	—	—	
<i>dlf</i>	29	4,756,605	7/12/88	Okada et al.	—	—	
Examiner: <i>Ronald D. Blum</i>				Date Considered: 12/21/04			
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Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No.: 63049.000088	Application No.: 10/644,112		
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				Applicant: Ronald D. Blum et al.			
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U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
QJ	30	4,772,094	9/20/88	Sheiman	—	—	
QJ	31	4,795,248	1/3/89	Okada et al.	—	—	
QJ	32	4,818,095	4/4/89	Takeuchi	—	—	
QJ	33	4,836,652	6/6/89	Oishi et al.	—	—	
QJ	34	4,880,300	11/14/89	Payner et al.	—	—	
QJ	35	4,904,063	2/27/90	Okada et al.	—	—	
QJ	36	4,907,860	3/13/90	Noble	—	—	
QJ	37	4,919,520	4/24/90	Okada et al.	—	—	
QJ	38	4,927,241	5/22/90	Kuijk	—	—	
QJ	39	4,929,865	5/29/90	Blum	—	—	
QJ	40	4,930,884	6/5/90	Tichenor et al.	—	—	
QJ	41	4,945,242	7/31/90	Berger et al.	—	—	
QJ	42	4,952,788	8/28/90	Berger et al.	—	—	
QJ	43	4,958,907	9/25/90	Davis	—	—	
Examiner: <i>QJ</i>				Date Considered: <i>12/21/04</i>			
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							



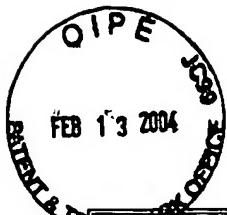
Sheet 4 of 10

Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No.: 63049.000088	Application No.: 10/644,112		
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Ronald D. Blum et al.					
		Filing Date: August 20, 2003			Group: 2873		
		U.S. PATENT DOCUMENTS					
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
JP	44	4,961,639	10/9/90	Lazarus	—	—	
JP	45	4,968,127	11/6/90	Russell et al.	—	—	
JP	46	4,981,342	1/1/91	Fiala	—	—	
JP	47	4,991,951	2/12/91	Mizuno et al.	—	—	
JP	48	5,015,086	5/14/91	Okaue et al.	—	—	
JP	49	5,030,882	7/9/91	Solero	—	—	
JP	50	5,066,301	11/19/91	Wiley	—	—	
JP	51	5,073,021	12/17/91	Marron	—	—	
JP	52	5,076,665	12/31/91	Petersen	—	—	
JP	53	5,091,801	2/25/92	Ebstein	—	—	
JP	54	5,108,169	4/28/92	Mandell	—	—	
JP	55	5,130,856	7/14/92	Tichenor et al.	—	—	
JP	56	5,142,411	8/25/92	Fiala	—	—	
JP	57	5,171,266	12/15/92	Wiley et al.	—	—	
JP	58	5,182,585	1/26/93	Stoner	—	—	
Examiner:			Date Considered: 12/21/04				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



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DEPARTMENT OF COMMERCE U.S. Department of Commerce (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No.: 63049.000088	Application No.: 10/644,112		
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Ronald D. Blum et al.					
		Filing Date: August 20, 2003			Group: 2873		
		U.S. PATENT DOCUMENTS					
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
QJ	59	5,184,156	2/2/93	Black et al.	—	—	
QJ	60	5,200,859	4/6/93	Payner et al.	—	—	
QJ	61	5,208,688	5/4/93	Fergason et al.	—	—	
QJ	62	5,229,885	7/20/93	Quaglia	—	—	
QJ	63	5,239,412	8/24/93	Naka et al.	—	—	
QJ	64	5,306,926	4/26/94	Yonemoto	—	—	
QJ	65	5,324,930	6/28/94	Jech, Jr.	—	—	
QJ	66	5,352,886	10/4/94	Kane	—	—	
QJ	67	5,359,444	10/25/94	Piosenka et al.	—	—	
QJ	68	5,375,006	12/20/94	Haas	—	—	
QJ	69	5,382,986	1/17/95	Black et al.	—	—	
QJ	70	5,440,357	8/8/95	Quaglia	—	—	
QJ	71	5,443,506	8/22/95	Gurabet	—	—	
QJ	72	5,451,766	9/19/95	Van Berkel	—	—	
QJ	73	5,488,439	1/30/96	Weltmann	—	—	
Examiner: <i>QJ</i>				Date Considered: <i>12/21/04</i>			
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							



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ABERPTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.: 63049.000088	Application No.: 10/644,112
INFORMATION DISCLOSURE STATEMENT				
(Use several sheets if necessary)		Applicant: Ronald D. Blum et al.		
		Filing Date: August 20, 2003		Group: 2873

U.S. PATENT DOCUMENTS

Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
GP	74	5,522,323	6/4/96	Richard	—	—	
GP	75	5,608,567	3/4/97	Grupp	—	—	
GP	76	5,615,588	4/1/97	Gottschald	—	—	
GP	77	5,654,786	8/5/97	Bylander	—	—	
GP	78	5,712,721	1/27/98	Large	—	—	
GP	79	5,728,155	3/17/98	Anello et al.	—	—	
GP	80	5,739,959	4/14/98	Quaglia	—	—	
GP	81	5,777,719	7/7/98	Williams et al.	—	—	
GP	82	5,815,233	9/29/98	Morokawa et al.	—	—	
GP	83	5,861,936	1/19/99	Sorenson	—	—	
GP	84	5,900,720	5/4/99	Kallman et al.	—	—	
GP	85	5,949,521	9/7/99	Williams et al.	—	—	
GP	86	5,980,037	11/9/99	Conway	—	—	
GP	87	6,325,508	12/4/01	Decreton et al.	—	—	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
GP	1	WO 98/27863	7/2/98	WIPO	—	—	X
GP	2	0 154 962 A2	9/18/85	EPO	—	—	X

Examiner:

Date Considered:

12/21/04

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Form PTO-1449 (Rev. 8-83)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No.: 63049.000088		Application No.: 10/644,112	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)							
				Applicant: Ronald D. Blum et al.			
				Filing Date: August 20, 2003		Group: 2873	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	<u>Translation</u> Yes No
Q1	3	0 233 104 A1	8/19/87	EPO	—	—	(Abstract)
Q1	4	0 237 365 A1	9/16/87	EPO	—	—	(Abstract)
Q1	5	1-237610	9/22/89	Japan	—	—	(Abstract)
Q1	6	2169417A	7/09/86	UK	—	—	X
Q1	7	2170613A	8/6/86	UK	—	—	X
Q1	8	55-076323	6/9/80	Japan	—	—	(Abstract)
Examiner Initial*		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
Q1		1	"Focusing by Electrical Modulation of Refraction in a Liquid Crystal Cell"; Stephen T. Kowal et al., <i>Applied Optics</i> , Vol. 23, No. 2, January 15, 1984, pp. 278-289				
Q1		2	"Computer Vision Syndrome - The Eyestrain Epidemic"; Robert A. Davis, O.D., <i>Review of Optometry</i> , September 15, 1997, pp. 80-88				
Q1		3	"The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer"; Stuart M. Lazarus, O.D., <i>Journal of the American Optometric Association</i> , April 1996, pp. 204-208				
Q1		4	<i>Eyecare Business</i> , October 1997 (entire issue)				
Q1		5	"Vision Through a Liquid-Crystal Spatial Light Modulator"; Larry N. Thibos et al., <i>Inpress</i> , Adaptive Optics Conference, Durham, United Kingdom, 1999				
Q1		6	"Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes"; Larry N. Thibos et al., <i>Inpress</i> , Adaptive Optics Conference, Durham, United Kingdom, 1999				
Q1		7	"Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye"; Larry N. Thibos et al., <i>Optometry and Vision Science</i> , Vol. 74, No. 7, July 1997				
Q1		8	"Electronic Spectacles for the 21 st Century"; <i>Indiana Journal of Optometry</i> , Vol. 2, No. 1, 1999				
Q1		9	"Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", <i>Indiana Journal of Optometry</i> , Vol. 2, No. 1, pp. 5-10, 1999				
Examiner:				Date Considered: 12/21/04			
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Form PTO-1449 U.S. Department of Commerce (Rev. 8-83) Patent and Trademark Office				Atty. Docket No.: 63049.000088	Application No.: 10/644,112		
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U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>gj</i>	1	4,787,733	11/29/88	Silva	—	—	
<i>gj</i>	2	4,919,520	04/24/90	Okada et al.	—	—	
<i>gj</i>	3	5,050,981	09/24/91	Roffman	—	—	
<i>gj</i>	4	5,114,628	05/19/92	Höfer et al.	—	—	
<i>gj</i>	5	5,682,223	10/28/97	Menezes et al.	—	—	
<i>gj</i>	6	5,712,721	01/27/98	Large	—	—	
<i>gj</i>	7	5,815,239	09/29/98	Chapman et al.	—	—	
<i>gj</i>	8	5,953,098	09/14/99	Lieberman et al.	—	—	
<i>gj</i>	9	6,086,204	07/11/00	Magnante	—	—	
<i>gj</i>	10	6,095,651	08/01/00	Williams et al.	—	—	
<i>gj</i>	11	6,145,987	11/14/00	Baude et al.	—	—	
<i>gj</i>	12	6,305,802	10/23/01	Roffman et al.	—	—	
<i>gj</i>	13	6,554,425	04/29/03	Roffman et al.	—	—	
Examiner: <i>J.W.P.</i>				Date Considered: 12/21/03			
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Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
<i>lj</i>	14	6,609,794	08/26/03	Levine	—	—	
<i>lj</i>	15	6,616,275	09/09/03	Dick et al.	—	—	
<i>lj</i>	16	6,616,279	09/09/03	Davis et al.	—	—	
<i>lj</i>	17	6,631,001	10/07/03	Kuisseko	—	—	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>lj</i>	1	10366043	12/09/98	JP	—	—	X
<i>lj</i>	2	PCT/US91/04976	07/15/91	PCT	—	—	
<i>lj</i>	3	PCT/US97/21688	11/21/97	PCT	—	—	
Examiner: <i>ljjp</i>				Date Considered: 12/21/03			



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FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
Examiner Initial*		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
gj	1	"Control Optimization of Spherical Modal Liquid Crystal Lenses"; A. F. Naumov and G. D. Love, <i>Optics Express</i> , Vol. 4, No. 9, April 26, 1999, pp. 344-352					
gj	2	✓ "Liquid Crystal Adaptive Lenses with Modal Control"; A. F. Naumov and M. Yu Loktev, <i>Optics Letters</i> , Vol. 23, No. 13, July 1, 1998, pp. 992-994					
gj	3	"Liquid Lenses Eye Commercial Breakthrough" (Internet Article under "Optics.org"); from <i>Opto & Laser</i> , November 2003					
Examiner:				Date Considered: 12/21/04			
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